SHARP

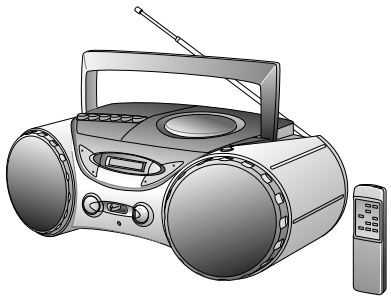
PORTABLE CD STEREO SYSTEM

MODEL

QT-CD250H

OPERATION MANUAL

Thank you for purchasing this SHARP product.
For the best performance, read this manual carefully. It will guide you in operating your SHARP product.



COMPACT disc DIGITAL AUDIO

NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ◇ or ⟨ASTA⟩ and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

SERVICE INFORMATION
In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please contact the telephone number listed below. You will then be given details of how to obtain service.
- 0345-125387 -
Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.

MANCHESTER 0161-682-1415
READING 01189-876444

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company. Please keep your invoice or receipt, which is supplied at the time of purchase.

Downloaded From Disc-Player.com Sharp Manuals

SPECIAL NOTES

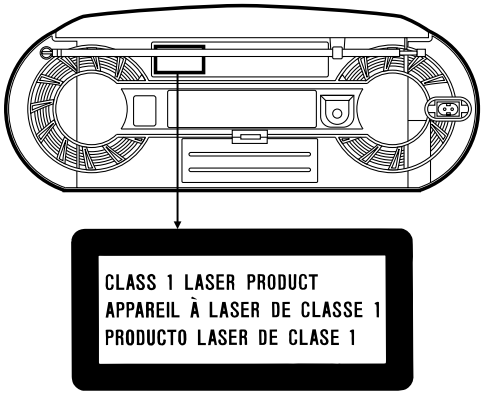
- The letters in brackets contained in the model number indicate the colour of the product only. Operation and specifications are unaffected.
- Recording and playback of any material may require consent, which SHARP is unable to give. Please refer particularly to the provisions of the Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.
- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.
- When the ON/STAND-BY switch is set at STAND-BY position, mains voltage is still present inside the unit.

Warning:
This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.

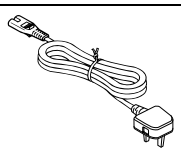
Warning:
To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

Caution:
Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

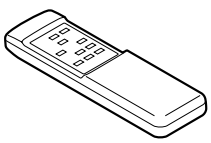
As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.



ACCESSORIES



AC power lead × 1



Remote control × 1

Notes:
- The AC power lead and remote control are located in the packing material.
- Parts and accessories mentioned in this operation manual other than those in the drawing are not included.

Downloaded From Disc-Player.com Sharp Manuals

PRECAUTIONS

General

- Do not use oil, solvents, petrol, paint thinners or insecticides on the unit.
- Do not expose the unit to moisture, to temperatures higher than 60˚C (140˚F) or to extreme low temperatures.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.
- Hold the AC power plug by the head when removing it from the AC socket, as pulling the lead can damage internal wires.
- When cleaning the heads, pinch roller, etc, remove the AC power plug from the wall socket as the unit contains high voltages.
  Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.
- Use the unit on a firm, level surface free from vibration, and do not place anything on the top of the unit.
- If the unit does not work properly whilst in use, set the ON/STAND-BY switch to STAND-BY and then to ON again.
- If an electrical storm is taking place near you, it is suggested that you disconnect the AC power lead from the AC socket for safety.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.

Warning:

The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter LED on the remote control.
Condensation can cause the unit to malfunction.
If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter LED with a soft cloth before operating the unit.

Warning:

CD players use a laser pickup which can damage the eyes if viewed directly. Do not look at the pickup, and do not touch the pickup directly.

Battery use

- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if they are weak or if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.
- Batteries are not included.

Caution:

- Do not use rechargeable batteries (nickel-cadmium battery, etc.).

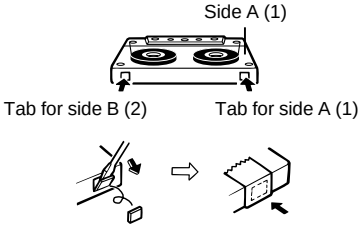
Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface.
Follow the guidelines below for maximum enjoyment from your CD collection and player.

- Do not write on either side of the disc, particularly the non-label side. Signals are read from the non-label side. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.

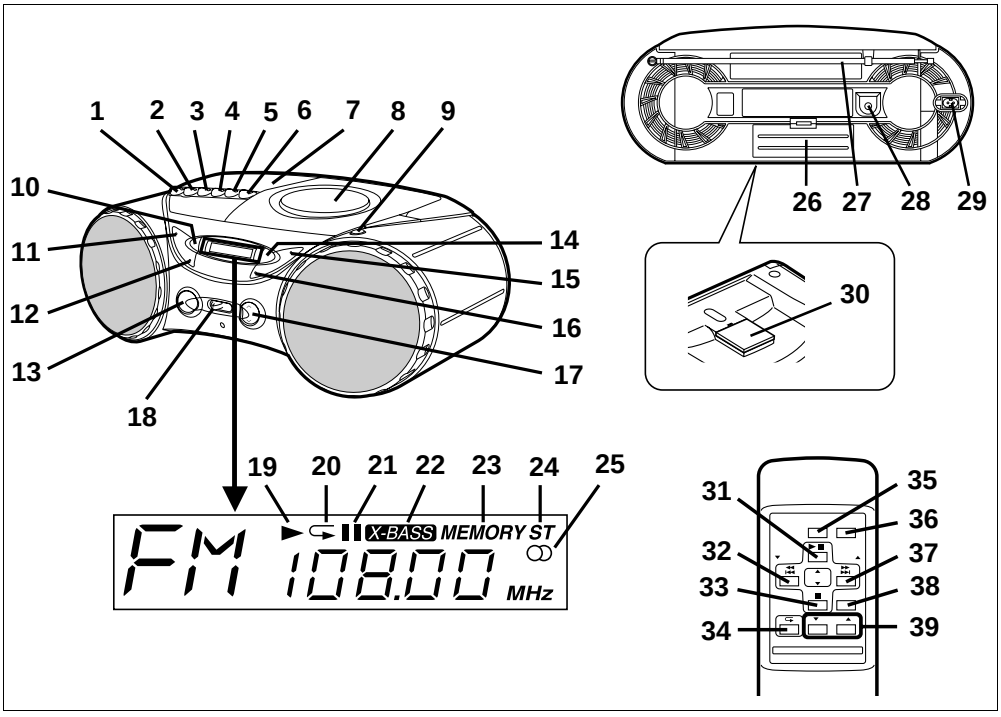
Cassette tape

- For playback, use normal or low-noise tape for the best sound. (Metal or CrO_2 tape is not recommended.)
  For recording, use only normal tape.
- Do not use C-120 tapes, tapes with large diameter reels, or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or pencil.
- Cassettes have removable tabs which prevent accidental recording or erasing from taking place. Removing the tab will protect the corresponding side from being erased. Cover the tab holes with adhesive tape to erase or record again.



Downloaded From Disc-Player.com Sharp Manuals

NAMES OF CONTROLS AND INDICATORS

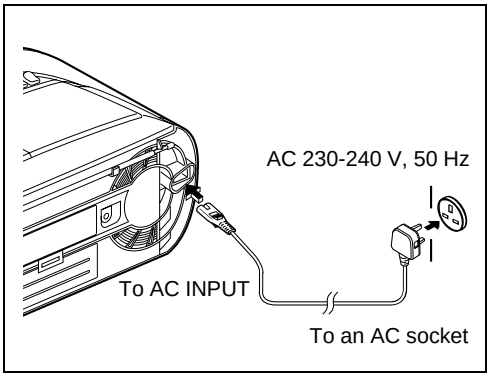


1. (TAPE) Record Button
2. (TAPE) Play Button
3. (TAPE) Rewind Button
4. (TAPE) Fast Forward Button
5. (TAPE) Stop/Eject Button
6. (TAPE) Pause Button
7. Cassette Compartment
8. CD Compartment
9. CD Eject Button
10. (CD) Stop Button
    (TUNER) Tuning Down Button
11. (CD) Repeat Button
    (TUNER) Band Selector Button
12. (TUNER) Preset Memory Button
13. Extra Bass Button
14. (CD) Play/Pause Button
    (TUNER) Tuning Up Button
15. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
16. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
17. Volume Up/Down Buttons
18. Stand-by, On/Function Switch
19. (CD) Play Indicator
20. (CD) Repeat Indicator
21. (CD) Pause Indicator
22. Extra Bass Indicator
23. (TUNER) Memory Indicator
24. (TUNER) FM Stereo Mode Indicator
25. (TUNER) FM Stereo Indicator
26. Battery Compartment
27. FM Telescopic Rod Aerial
28. Headphone Socket
29. AC Power Input Socket
30. Backup Memory Battery Compartment
31. (CD) Play/Pause Button
    (TUNER) Tuning Up Button
32. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
33. (CD) Stop Button
    (TUNER) Tuning Down Button
34. (CD) Repeat Button
    (TUNER) Band Selector Button
35. (TUNER) Memory Button
36. (TUNER) Clear Button
37. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
38. Extra Bass Button
39. Volume Up/Down Buttons

Downloaded From Disc-Player.com Sharp Manuals

POWER SOURCE

■ AC power

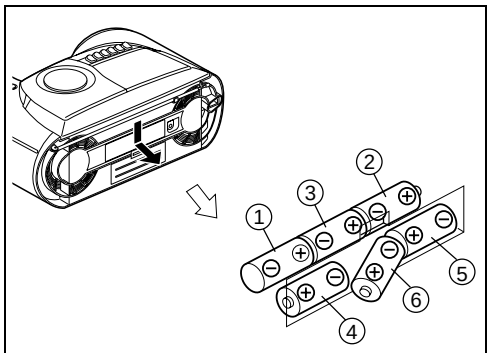


Connect the AC power lead to the AC power input socket, then connect the AC power lead plug to an AC socket.

Notes:

- If the unit will not be used for a long period of time, remove the AC power lead from the AC socket.
- Connection of the AC power lead to the unit disconnects the batteries.
- Never use a power lead other than the one supplied. Use of a power lead other than the one supplied may cause an electric shock or fire.

■ Battery power



1 Disconnect the AC power lead, and remove the battery compartment cover.

2 Insert 6 "D" size batteries (UM/SUM-1, R20, HP-2 or similar) into the battery compartment.

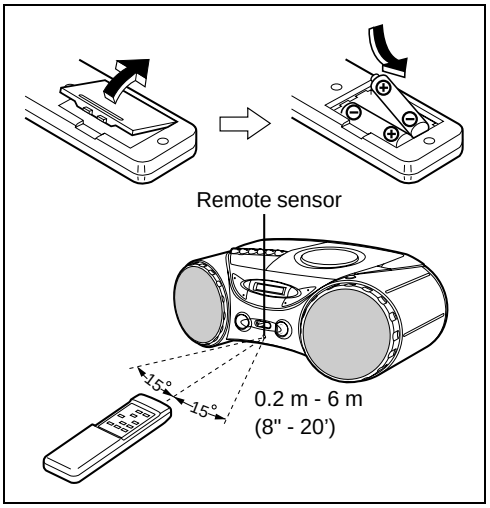
- Insert the batteries according to the direction indicated on the rear panel.
- When inserting or removing the batteries ③ and ⑥, push them towards the ⊖ battery terminals.
- Installing the batteries incorrectly may cause the unit to malfunction.

3 Replace the battery compartment cover.

Note:

Replace the batteries when they become weak and/or recording or playback is impaired. This may occur even though radio broadcasts are audible.

REMOTE CONTROL



1 Remove the battery compartment cover on the remote control.

2 Insert 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar) into the battery compartment on the remote control.

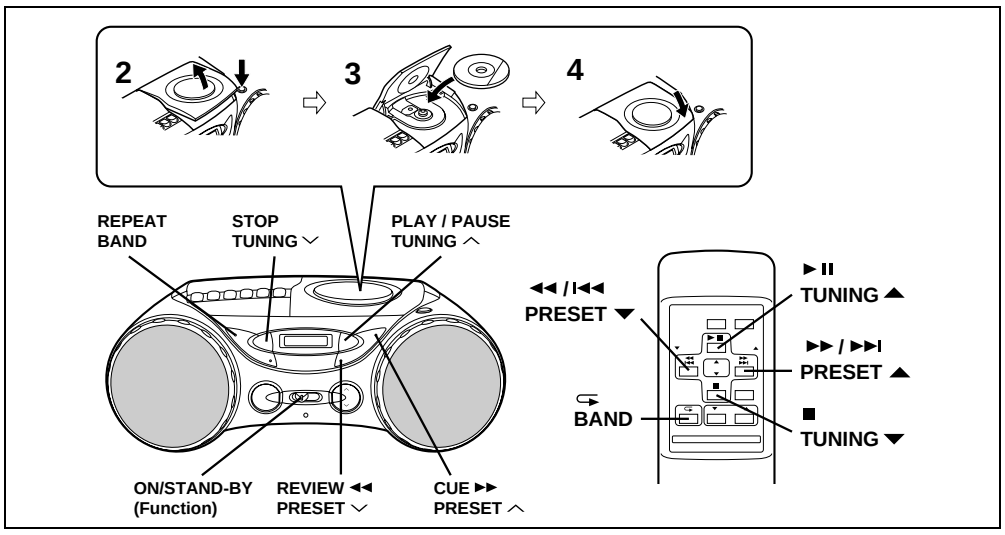
- When inserting or removing the batteries, push them towards the ⊖ battery terminals.
- Installing the batteries incorrectly may cause the unit to malfunction.

Notes:

- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

Downloaded From Disc-Player.com Sharp Manuals

COMPACT DISC OPERATION



■ CD playback

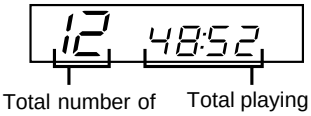
1 Set the function switch to CD.

2 Press the CD EJECT button to open the CD compartment.

3 Place a compact disc on the spindle, label side up.

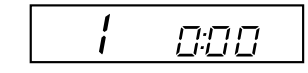
- 8 cm (3") discs may be played without an adaptor.

4 Close the CD compartment by firmly pushing the right corner of it.



Total number of tracks

Total playing time



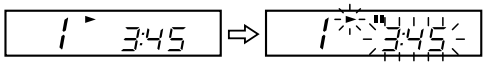
5 Press the PLAY/PAUSE (► II) button to start playback from track 1.

6 Press the VOLUME ∧ button to increase the volume and the VOLUME ∨ button to decrease the volume.

7 Press the X-BASS button to emphasise the bass region of the frequency spectrum.
The "X-BASS" indicator will light up.
Press the X-BASS button again to cancel the extra bass mode.
The "X-BASS" indicator will go out.

To interrupt playback:

Press the PLAY/PAUSE (► II) button during playback.
Press the PLAY/PAUSE (► II) button again to resume playback.



To stop playback:

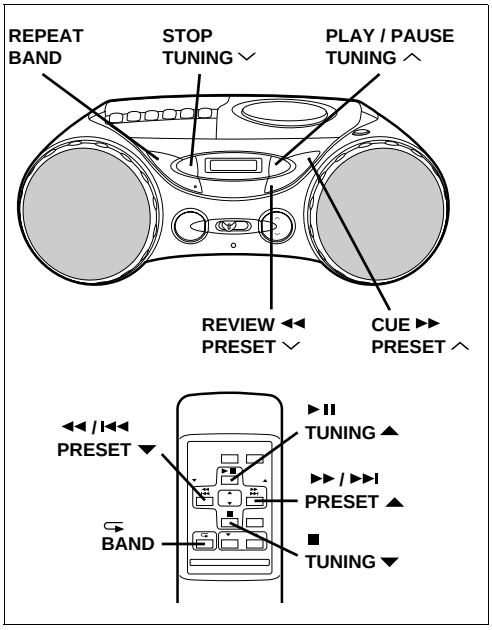
Press the STOP (■) button.

Precautions:

- When "no dISC" or track number is displayed, the power is connected.
  If you will not be using the CD player, set the ON/STAND-BY switch to STAND-BY.
- Do not open the CD compartment whilst the disc is rotating.
- If the disc is damaged, dirty, or loaded upside down, "Er" or "no dISC" will appear in the display.
  Clean, replace, or reload the disc properly.
- Keep foreign objects out of the CD compartment.
- Subjecting the unit to shock or vibration may cause mistracking.
- Keep the CD compartment closed except when loading discs.
- Playing certain compact discs at a high volume may cause mistracking. In this case, listen at a lower volume.
- The temperature range for playing compact discs is recommended to be 5˚C (41˚F) - 35˚C (95˚F).
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.

Downloaded From Disc-Player.com Sharp Manuals

(Continued)



■ APSS (Auto Program Search System)

APSS automatically locates the beginning of any track.

To listen again to the track being played:

Press the DOWN (◀◀/I◀◀) button for less than 0.5 seconds during playback.

To move to the beginning of the next track:

Press the UP (▶▶ / ▶▶I) button for less than 0.5 seconds during playback.

Notes:

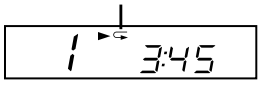
- To skip a number of tracks at one time, press the UP (▶▶ / ▶▶I) or DOWN (◀◀ / I◀◀) button repeatedly until the desired track number is shown.
- To start playback from a desired track, press the UP (▶▶/▶▶I) or DOWN (◀◀/I◀◀) button whilst in the stop mode to select the track number, and then press the PLAY/PAUSE (▶ ❚❚) button.

■ Repeat play

During playback, press the REPEAT/BAND (⊂) button repeatedly to select the play mode.
Each time the button is pressed, the display will change as follows:

☀	Flashes	1 track repeat play
⊂	Appears	All track repeat play
	Disappears	Normal play

Repeat indicator



Note:

- When using repeat play, be sure to press the STOP (■) button after you are through listening. Otherwise, the CD(s) will play continuously.

■ Cue and review

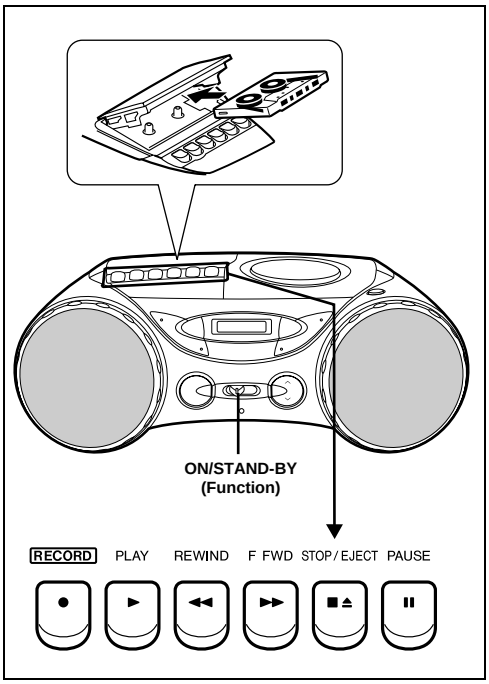
1. Load a disc and begin playback.
2. Hold down the CUE (▶▶/▶▶I) button for audible fast forward, and hold down the REVIEW (◀◀/I◀◀) button for audible fast reverse.
3. Normal playback will resume when the REVIEW (◀◀/I◀◀) or CUE (▶▶/▶▶I) button is released.

Notes:

- When the end of the disc is reached whilst cueing, "End" will appear in the display and CD operation is paused. Press the REVIEW (◀◀/I◀◀) button for fast reverse or press the STOP (■) button to stop CD operation.
- If the beginning of the disc is reached whilst reviewing, the mode will automatically switch to normal playback at that point.

Downloaded From Disc-Player.com Sharp Manuals

CASSETTE OPERATION



■ Tape playback

1. Set the function switch to TAPE.
2. Load the cassette into the cassette compartment.
3. Press the PLAY button.
4. To advance the tape, press the STOP/EJECT button, then press the F FWD button. To rewind, press the STOP/EJECT button, then press the REWIND button.

To interrupt playback:

Press the PAUSE button during playback.
Press the PAUSE button again to resume playback.

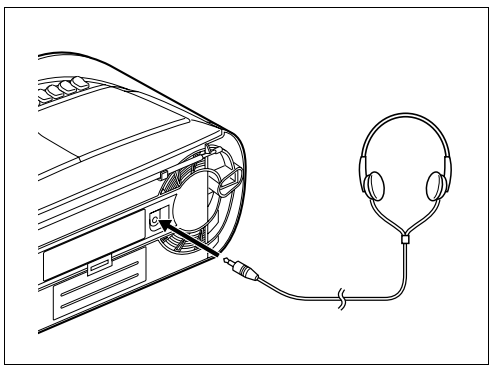
To stop playback:

Press the STOP/EJECT button.

Precautions:

- Be sure not to press the PLAY and REWIND buttons simultaneously, or the tape will become damaged.
- Before changing from one tape operation to another, press the STOP/EJECT button.
- Do not press the PAUSE button whilst the fast forward or rewind operations are in progress. The F FWD or REWIND button will not be released when the tape end is reached. Once this occurs, press the STOP/EJECT button.

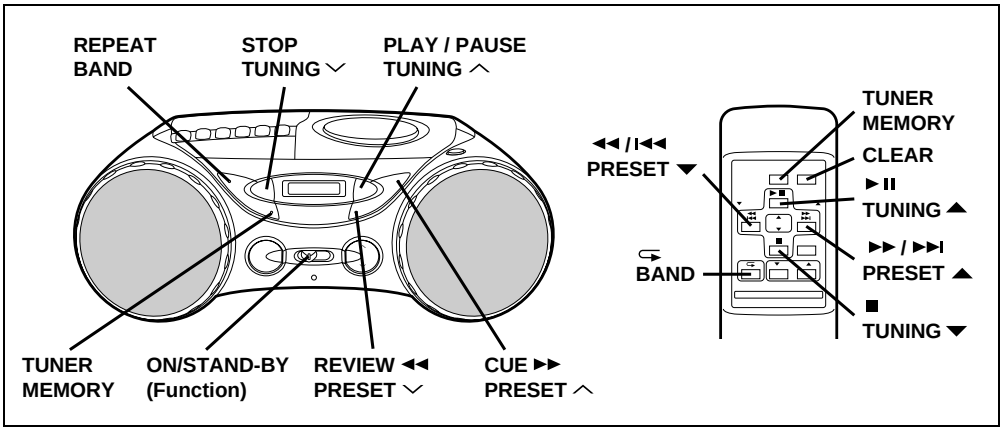
HEADPHONES



- Before plugging in or unplugging the headphones, make sure the volume level is reduced.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- Connect the headphones plug to the PHONES socket located on the rear of the unit. The speakers will be automatically disconnected. Adjust the volume by using the VOLUME control.

Downloaded From Disc-Player.com Sharp Manuals

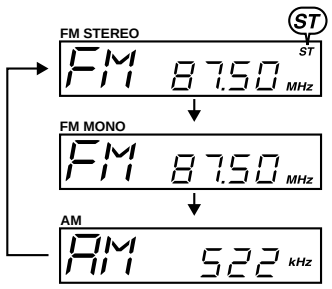
RADIO OPERATION



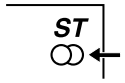
■ Tuning

1 Set the function switch to TUNER.

2 Press the REPEAT/BAND (⮌) button to select the desired frequency band. (FM ST, FM or AM)



- To receive an FM stereo transmission, press the REPEAT/BAND (⮌) button so that the "ST" indicator on the display lights up.
- The "○○" indicator lights up when an FM broadcast is in stereo.



3 Press the TUNING (∨ or ∧) button to tune into the desired station.

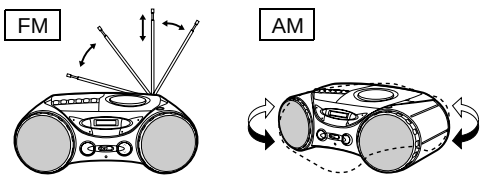
Manual tuning:
Press the TUNING (∨ or ∧) button as many times as required to adjust the frequency shown on the display to the frequency of the desired station.

Auto tuning:
When the TUNING (∨ or ∧) button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:

- When radio interference occurs during auto scan tuning, auto scan tuning may stop automatically at that point.
- If a weak station signal is found during auto scan tuning, the station will be skipped.
- To stop the auto tuning, press the TUNING (∨ or ∧) button again.
- If the FM reception is poor, press the REPEAT/BAND (⮌) button so that the "ST" indicator goes out.
  Although the reception changes to monaural, the sound becomes clearer.

Aerial adjustment:



After use:
Set the ON/STAND-BY switch to STAND-BY.

Downloaded From Disc-Player.com Sharp Manuals

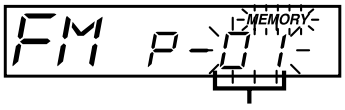
(Continued)

■ Preset tuning

You can store up to 30 stations in memory (30 stations consisting of any combination of FM and AM stations you like) and recall them at the push of a button. FM stations can be recalled in either stereo or mono.

1 Tune to the desired station.
(Perform steps 1 - 3 in the "Tuning" section on page 8.)

2 Press the TUNER MEMORY button.



Preset number

3 Within 5 seconds, press the PRESET (∨ or ∧) button until the preset number to be programmed flashes in the display.

4 Within 5 seconds, press the TUNER MEMORY button to store that station in the selected station preset number memory.

- If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.
- The preset numbers in step 2 are displayed starting from the low numbers which have not been assigned. If the preset numbers are assigned in order, step 3 can also be omitted.
  If you want to change the station assigned to a preset number, select that preset number in step 3.

5 Repeat steps 1 - 4 to set other preset stations, or to change a preset station.

■ To recall a memorised station

1 Set the function switch to TUNER.

2 Press the PRESET (∨ or ∧) button to recall the desired preset channel number.

- If there are no stations memorised, this operation can not be performed.

■ To clear all memorised stations

1 Set the function switch to TUNER.

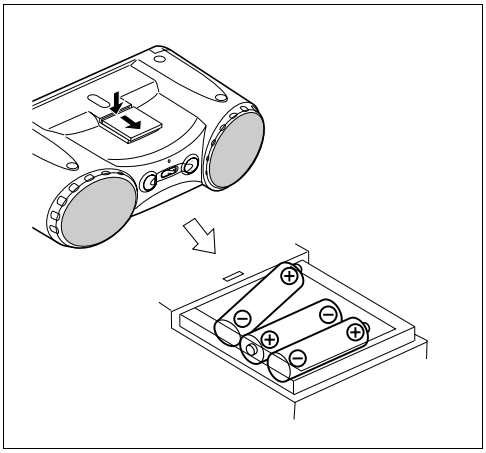
2 Press the TUNER MEMORY button.

3 Press the PRESET (∧ or ∨) button to select the channel number you want to erase.

4 Within 5 seconds, press the CLEAR button on the remote control.

■ How to backup the preset tuning stations

When the backup memory battery is installed, the contents of the preset tuning can be stored even when the power is turned off.



1 Remove the backup memory battery compartment cover located on the bottom of the unit.

2 Insert 3 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar) into the backup memory battery compartment.

- When inserting or removing the batteries, push them towards the ⊖ battery terminals.
- Installing the batteries incorrectly may cause the unit to malfunction.

Notes:

- When the backup memory batteries are installed in the unit, the memory recalls the last station received even after setting the ON/STAND-BY switch to STAND-BY or unplugging the unit from AC power.
  It also stores the sound level.
- If the backup memory batteries are not inserted and the power is disconnected, the tuner's preset memories will be erased.
- Replace the backup memory batteries approximately once a year.

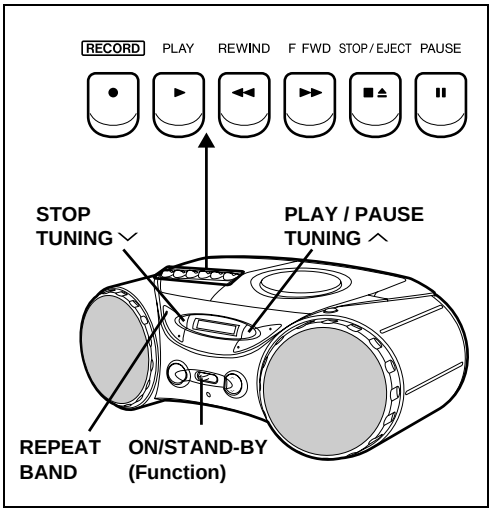
Caution:

- When inserting or replacing the batteries for the backup memory, connect the AC power lead and set the ON/STAND-BY switch to ON. This will extend battery life.

Downloaded From Disc-Player.com Sharp Manuals

RECORDING

- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.
- The ALC (Automatic Record Level Control) circuit automatically controls the level of the input signal used for recording.
- The VOLUME control may be adjusted with no effect on the recorded signal. (Variable Sound Monitor)
- Metal and CrO_2 tapes cannot be used for recording.



■ Recording from the built-in CD player

1 Set the function switch to CD.
- Load the disc to be recorded.

2 Load the cassette into the cassette compartment.

3 Press the RECORD button.

4 Press the PLAY/PAUSE (▶❚❚) button on the CD.

To stop recording:

Press the STOP/EJECT button.
The tape will stop.

Note:

- If the STOP(■) or PLAY/PAUSE (▶ ❚❚) button on the CD player is pressed whilst recording, or if the CD comes to its end, the tape deck will not stop.

To record a specific track:

Press the UP (▶▶/▶▶❙) or DOWN (◀◀/❙◀◀) button on the CD player until the desired track number is displayed, then start recording.

■ Recording from the built-in radio

1 Set the function switch to TUNER.
- Tune in to the station to be recorded.

2 Load a blank cassette into the cassette compartment.

3 Press the PAUSE button.

4 Press the RECORD button.

5 Press the PAUSE button again.

To stop recording:

Press the STOP/EJECT button.

■ Erasing a recorded tape

1 Set the function switch to TAPE.

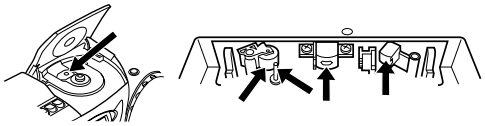
2 Load the tape to be erased into the cassette compartment.

3 Press the RECORD button.

MAINTENANCE

■ Internal care

- Do not touch the Laser pickup lens. If fingerprints or dust accumulate on the pickup, clean it gently with a dry cotton swab.
- Dirty heads, capstan or pinch roller can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- After long use, the deck's heads and capstan may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.



■ External care

- Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then wipe with a dry cloth.
- Do not use chemically treated cleaning cloths or other chemicals.

Downloaded From Disc-Player.com Sharp Manuals

<P=003>

SPECIFICATIONS

SHARP reserves the right to make design and specification changes for product improvement without prior notice.

● **General**

Power source:	AC 230-240 V, 50 Hz DC 9 V ["D" size (UM/SUM-1, R20 or HP-2) battery × 6] DC 4.5 V ["AA" size (UM/SUM-3, R6 or HP-7) battery × 3 for backup memory]
Power consumption:	8 W
Output power:	RMS; 4.6 W (2.3 W + 2.3 W) (DC operation, 10 % T.H.D.) MPO; 8.4 W (4.2 W + 4.2 W) (AC operation, 10 % T.H.D.)
Speakers:	10 cm (4") full-range speaker x 2
Output terminals:	Headphones; 16-50 ohms (recommended; 32 ohms)
Dimensions:	Width; 400 mm (15-3/4") Height; 158 mm (6-1/4") Depth; 212 mm (8-3/8")
Weight:	2.7 kg (6.0 lbs.) without batteries

● **Radio**

Frequency range:	FM; 87.5 - 108 MHz AM; 522 - 1,620 kHz

● **Compact disc player**

Type:	Compact disc
Signal readout:	Non-contact, 3-beam semi-conductor laser pickup
Audio channels:	2
Filter:	8-times oversampling digital filter
D/A converter:	1-bit D/A converter
Wow and flutter:	Unmeasurable (less than 0.001% W. peak)

● **Tape recorder**

Frequency response:	50 - 14,000 Hz (Normal tape)
Signal/noise ratio:	50 dB
Wow and flutter:	0.25 % (WRMS)
Motor:	DC 9 V electric governor
Bias system:	AC bias
Erase system:	Magnet erase

TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. (“Sharp”) guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.
2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.
3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.
4. The guarantee does not cover carriage costs, jewelled styli, audio tapes, compact discs or batteries.
5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.
6. No person has any authority to vary the terms or conditions of this guarantee.
7. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre - Telephone 0345 125387

SHARP

SHARP ELECTRONICS (U.K.) LTD.
Sharp House, Thorp Road, Newton Heath, Manchester, M40 5BE

SHARP CORPORATION

TINSE0043SJZZ

A0002.TO

Downloaded From Disc-Player.com Sharp Manuals